

**ECR#: P23**

**Tracker #: 30**

**Status: Ratified**

**Title: Clarification of AGP Height Restriction (Maximum Component Height Restriction, Motherboard Primary Side, Far Left)**

**Release Date: March 1999**

**Impact, Low: Chassis design**

**Spec Version: NLX Motherboard Specification V1.2**

**Summary:**

This ECR is intended to clarify the maximum motherboard component height at the far left side of a 9.000-inch wide motherboard that provides an AGP connector on the board. The ECR also clarifies what the height restrictions are for boards that are less than 9.000 inches wide and boards that do not support AGP.

**Background:**

The specification currently states (Section 3.81) that the motherboard accepts a maximum component height of 3.600 inches toward the far left side of the motherboard for boards that support an NLX AGP "notched" card. However, the 3.600-inch measurement given in the specification included the height of a typical AGP card.

Also, for boards that are less than 9.000 inches wide and for boards that do not support NLX AGP add-in cards, the specification does not clearly define what the component height restriction should be for the far left of the motherboard.

Finally, the 3.600-inch area is currently defined in Figure 3.15 to extend through the 1.430-inch area toward the back of the board. To clarify the figure, we have split it into Figures 3.15a (supports AGP add-in card) and 3.15b (does not support AGP add-in card).

## Change the Current Specification As Shown:

*In Section 3.8.1, replace the existing text with the following three paragraphs:*

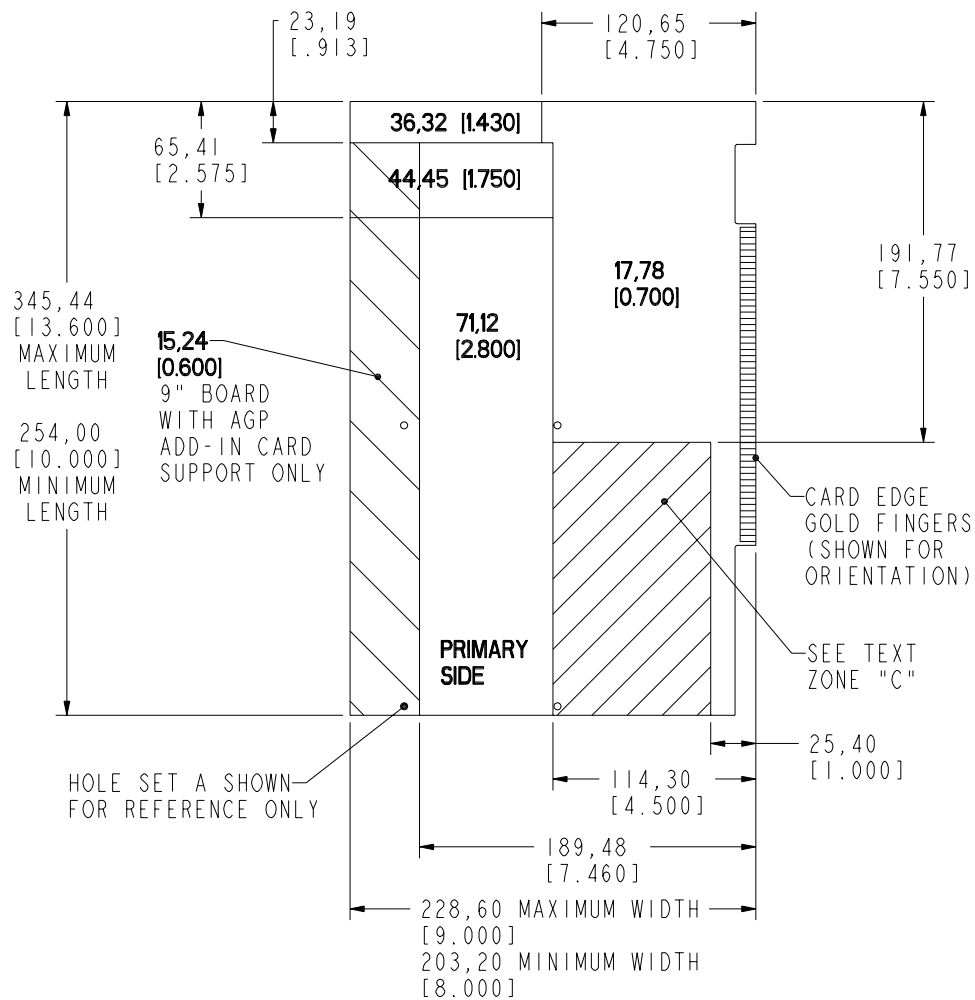
The far left side of the motherboard accepts a maximum component height of up to .600 inches [15.24 mm] in the area where an NLX AGP “notched” card would be present if an AGP connector is provided on a 9.000-inch wide motherboard. To support AGP, the NLX motherboard designer should not place any component taller than .600 inches [15.24 mm] in that area. The NLX chassis designer should refer to the AGP specification to determine how to support an AGP add-in card. Figure 3.15a shows the height restrictions for boards that support AGP cards.

For boards that do not support an NLX AGP “notched” card or are less than 9.000 inches wide, the maximum component height in this area is 2.800 inches [71.12 mm] and 1.750 inches [44.45 mm]. Figure 3.15b shows the height restrictions for boards that do not support AGP cards.

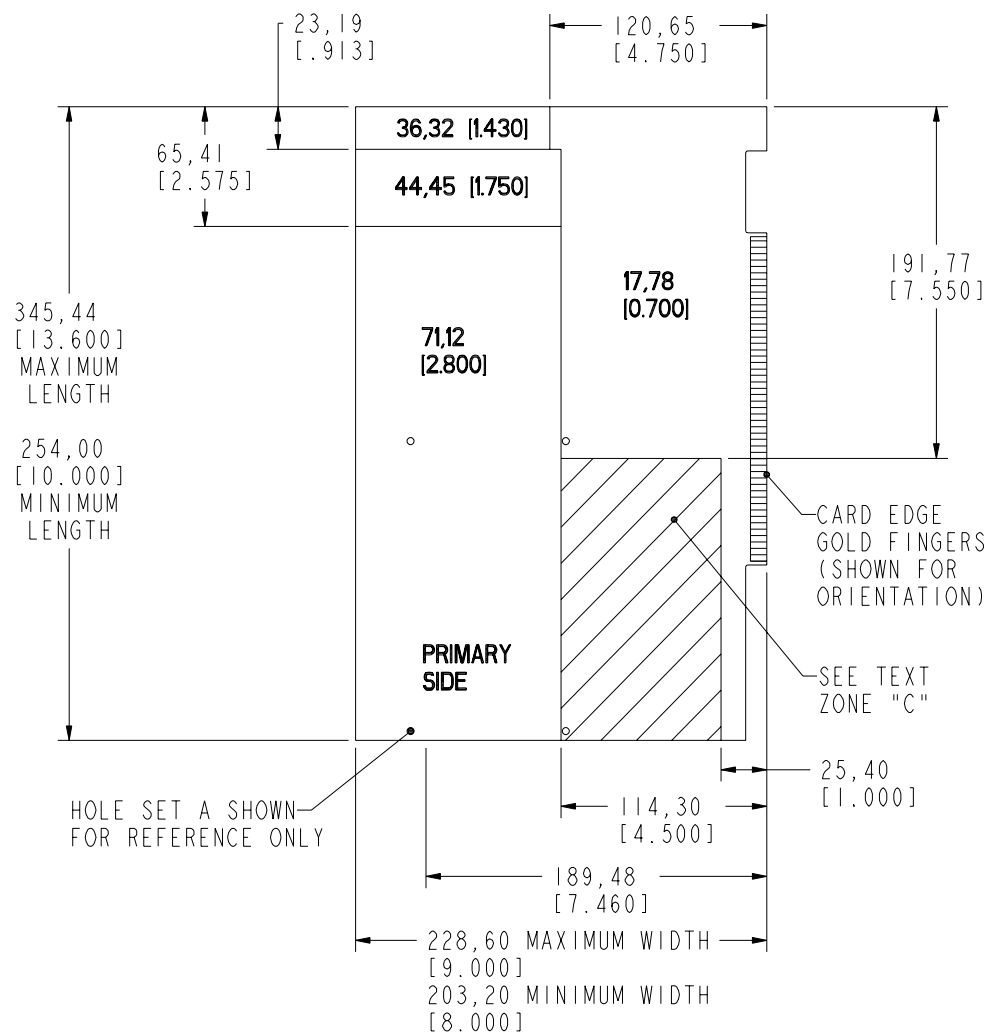
For detailed information about the Accelerated Graphics Port (AGP) specification and compliance, see the World Wide Web site at [www.agpforum.org](http://www.agpforum.org).

*At the end of Section 3.8.4, **replace** Figure 3.15 with the two figures provided below:*

- *Figure 3.15a, height restrictions for motherboard designs that support AGP add-in cards*
- *Figure 3.15b, height restrictions for motherboard designs that do **not** support AGP cards*



**Figure 3.15a: NLX Motherboard Primary Side Height Restrictions for a Design That Supports AGP Add-in Cards**



**Figure 3.15b: NLX Motherboard Primary Side Height Restrictions for a Design That Does Not Support AGP Add-in Cards**